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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/961,273 | 09/25/2001 | Naoya Hashimoto | Q65705 | 8063 |
| 7590 12/30/2003 SUGHRUE, MION, ZINN, MACPEAK & SEAS | | | EXAMINER | |
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| 2100 Pennsylvar | nia Avenue, N.W. | | | |
| Washington, DC 20037 | | ART UNIT | PAPER NUMBER | |
| | | 2832 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statule, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 7-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 12 and 13 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | | | |
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| ## Definition Part | | Application No. | Applicant(s) | | | | | |
| Bernard Rojas | | 09/961,273 | HASHIMOTO ET AL. | | | | | |
| Preiod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the procession of 30°CFR 1.15(0). In no event, however, may a reply be timely fleat Extensions of time may be available under the procession of 30°CFR 1.15(0). In no event, however, may a reply be timely fleat If the period for reply sepondate under the procession of 30°CFR 1.15(0). In no event, however, may a reply be timely fleat If the period for reply sepondate under the procession of 30°CFR 1.15(0). In no event, however, may a reply be timely fleat If the period for reply sepondate under the period for reply vall. by a death of the period for reply sepondated under the mailing date of this communication, reply within the set of extended period for reply vall. by a status, cause the application to become ARANCORD GO 33°CFR 1.15(d). Status 1) Responsive to communication(s) filled on | Office Action Summary | Examin r | Art Unit | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estatesized of litters may be available under the provisions of 31 CPR 1.136(a). In no event, however, may a raphy be limely filled. Estatesized of litters may be available under the provisions of 31 CPR 1.136(a). In no event, however, may a raphy be limely filled. Estatesized of litters may be available under the provisions of 31 CPR 1.136(a). In no event, however, may a raphy be limely filled. Estatesized of litters are severally associated as a construction of the provisions of the provision of the above claim(s). Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) © Claim(s) 1 and 7-17 is/are pending in the application. 4) © Claim(s) 1 and 7-17 is/are pending in the application. 4) © Claim(s) 1 and 1-17 is/are rejected. 7) © Claim(s) 1 and 11 is/are objected to. 5) □ Claim(s) 12 and 13 is/are objected to. 5) □ Claim(s) 12 and 13 is/are objected to. 5) □ Claim(s) 12 and 13 is/are objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10 □ The drawing(s) filled on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The above claim(s) is objected to by the Examiner. Application papers 9) □ The cath or declaration is objected to by the Examiner. 11 □ The dark or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119(a)-(d) or (f). 1) □ Claim(s) is one * c) □ None of: □ □ Certified copies of the priority documents have been received in this National Stage application from the International Bureau | | | | | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Estensions of time may be available under the provisions of 3 CPR 1.13(e). In no event, however, may a reply be limitly filed after 5x (6) MONTHS from the mailing date of his communication. If the period comply spended above is asen than through the complete of the communication of the period of the communication of the communication of the period of the communication of the communication of the period of the communication of | | appears on the cover sheet with the | correspondenc address | | | | | |
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| 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) _a is/are allowed. 7) ☐ Claim(s) _a are subject to restriction and/or election requirement. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. | 4)⊠ Claim(s) <u>1 and 7-17</u> is/are pending in the ap | oplication. | | | | | | |
| Solution | 4a) Of the above claim(s) is/are without | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
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Application/Control Number: 09/961,273

Art Unit: 2832

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 10/14/2003 have been fully considered but they are not persuasive.

Claim 1, In response to applicant's argument that the Examiner has failed to establish "wherein said cover member protects said coil from being directly subjected to molding pressure when said cover is formed by injection molding, by covering said coil", a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. The epoxy adhesive [4] covers the super conducting wire thereby protecting it from being *directly* subjected to molding pressure. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Applicant has not required the specific limitation of injection molding the cover. The claim merely states "wherein said cover member protects said coil from being directly subjected to molding pressure when said cover is formed by injection molding, by covering said coil", in the example provided by Shibuta, the cover is not injection molded, but still reads on the claim.

Claim 7, Ghorashi states the "products prepared by melt coating a resin on magnet copper wire have often had deficiencies such as water crazing, marginal

polymer flexibility and poor stability at high temperatures" [col. 1 lines 8-13] in the background section of the disclosure. In the description of the invention, Ghorashi states his process yields a coated copper wire having as adherent coating which is resistant to water crazing and is stable at high temperatures [col. 1 lines 59-65].

Ghorashi teaches a conductor wire coated with an insulative material having a thickness for 1 to 10 mils [col. 2 lines 42-46] which is magnitudes greater than the average size of a flash on a bobbin [0.01mm].

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Shibuta et al. [US Patent #5,512,867].

An electromagnetic device body including a coil formed with a conductor [2] wound around the bobbin [1] and a cover member enclosing the coil [4]. A cover for covering the electromagnetic device body [3]. The cover member protecting the coil from directly subjected to molding pressure when the cover is injection molded.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-11 and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shibuta et al. [US Patent #5,512,867] in view of Ghorashi et al. [US Patent #5202187].

Claims 7,14 and 15. Shibuta et al. discloses an electromagnetic device with a bobbin [1], a conductor [2] wound around the bobbin. The conductor has a outer coating.

Shibuta et al. does not disclose the thickness of the outer coating.

Ghorashi et al. discloses a conductor wire coated with an insulative material. The insulation disclosed is from 1 to 10 mils, at least 4 times larger than the average flash produced on a bobbin as disclosed by applicant.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings to provide a robust insulation that is stable to high temperatures and is resistant to water crazing, cracking and loss of coating [col. 1 lines 59-65].

Claim 8, Shibuta et al. discloses an electromagnetic device body including a coil formed with a conductor [2] wound around the bobbin [1] and a cover member enclosing the coil [4]. A cover for covering the electromagnetic device body [3].

Shibuta et al. does not disclose the thickness of the outer coating.

Ghorashi et al. discloses a conductor wire coated with an insulative material. The insulation disclosed is from 1 to 10 mils, at least 4 times larger than the average flash produced on a bobbin as disclosed by applicant.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings to provide a robust insulation that is stable to high temperatures and is resistant to water crazing, cracking and loss of coating [col. 1 lines 59-65].

Claims 9-11 and 16, an electromagnet of this design is useful in many devices, the specific environment in which the electromagnet is used is a design choice based on the users requirements.

Claim 17, the cover member is cylindrical [figure 1].

Allowable Subject Matter

Claims 12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (703) 305-3873. The examiner can normally be reached on M-F (7-4:30), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (703) 308-7619. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

LINCOLA DONOVAN
PRIMARY EXAMINER
CHOCUP 2100

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